Volume 52, 2003

Plant Pathology

An international journal edited by the
British Society for Plant Pathology

Senior Editor
R. Shattock

Volume Contents

Blackwell
Publishing

ISSN 0032-0862

Published by Blackwell Publishing Ltd
Typeset by Graphicraft Limited, Hong Kong
Printed by the Alden Group, Oxford, UK.

©2003 British Society for Plant Pathology. All rights reserved. With the exception of fair dealing for the purposes of research or private study, or criticism or review, no part of this publication may be reproduced, stored or transmitted in any form or by any means without the prior permission in writing from the copyright holder. Authorization to photocopy items for internal and personal use is granted by the copyright holder for libraries and other users of the Copyright Clearance Centre (CCC), 22 Rosewood Drive, Danvers, MA 01923, USA (www.copyright.com), provided the appropriate fee is paid directly to the CCC. This consent does not extend to other kinds of copying, such as copying for general distribution for advertising or promotional purposes, for creating new collective works, or for resale.

Editorial Offices:
Blackwell Publishing Ltd, 9600 Garsington Road, Oxford OX4 2DQ, UK
Blackwell Publishing Asia, 550 Swanston Street, Carlton South, Victoria 3053, Australia
Blackwell Verlag, Kurfürstendamm 58, D-10707 Berlin, Germany
Blackwell Publishing KK, NK Building, 3F, 2-8-12 Iwamotocho, Chiyoda-ku, Tokyo 101-0032, Japan
Blackwell Publishing Inc., Commerce Place, 350 Main Street, Malden MA 02148-5018, USA
Blackwell Munksgaard, 1 Rosenørns Allè, PO Box 227, DK-1502 Copenhagen V, Denmark
Iowa State Press, (A Blackwell Publishing Company), 2121 S State Avenue, Ames, IA 50014-8300, USA

ISSN 0032-0862

Contents

NUMBER 1 **FEBRUARY**

Obituary

1 *Roy Johnson*

Review

3 *A. K. Lees & A. J. Hilton.* Black dot (*Colletotrichum coccodes*): an increasingly important disease of potato

Original Articles

13 *S. F. Carnegie, J. W. Choiseul & A. M. I. Roberts.* Detection of *Colletotrichum coccodes* and *Helminthosporium solani* in soils by bioassay

22 *A. I. Bokshi, S. C. Morris & B. J. Deverall.* Effects of benzothiadiazole and acetylsalicylic acid on β-1, 3-glucanase activity and disease resistance in potato

28 *R. Yahiaoui-Zaidi, B. Jouan & D. Andrivon.* Biochemical and molecular diversity among *Erwinia* isolates from potato in Algeria

41 *A. Lebeda & V. Zinkernagel.* Evolution and distribution of virulence in the German population of *Bremia lactucae*

52 *A. Schoeny, F. Devienne-Barret, M.-H. Jeuffroy & P. Lucas.* Effect of take-all root infections on nitrate uptake in winter wheat

60 *S. A. Bhuiyan, M. J. Ryley, V. J. Galea & D. Tay.* Evaluation of potential biocontrol agents against *Claviceps africana in vitro* and *in vivo*

68 *J. Armengol, A. Vicent, P. Martínez-Culebras, B. D. Bruton & J. Garcia-Jiménez.* Identification, occurrence and pathogenicity of *Rhizopycnis vagum* on muskmelon in Spain

74 *S. Li & G. L. Hartman.* Molecular detection of *Fusarium solani* f. sp. *glycines* in soybean roots and soil

84 *F. O. Ogbe, G. I. Atiri, A. G. O. Dixon & G. Thottappilly.* Symptom severity of cassava mosaic disease in relation to concentration of *African cassava mosaic virus* in different cassava genotypes

92 *G. R. G. Clover, Z. Tang, T. E. Smales & M. N. Pearson.* Taxonomy of *Wisteria vein mosaic virus* and extensions to its host range and geographical distribution

97 *S. Noir, F. Anthony, B. Bertrand, M.-C. Combes & P. Lashermes.* Identification of a major gene (*Mex*-1) from *Coffea canephora* conferring resistance to *Meloidogyne exigua* in *Coffea arabica*

104 *R. S. Quilliam & R. C. Shattock.* Haustoria of microcyclic rust fungi *Uromyces ficariae* and *Puccinia tumida* and other gall-forming species, *U. dactylidis* (macrocyclic) and *P. smyrnii* (demicyclic)

114 *Book reviews*

NUMBER 2 **APRIL**

Original Articles

119 *I. K. Toth, L. Sullivan, J. L. Brierley, A. O. Avrova, L. J. Hyman, M. Holeva, L. Broadfoot, M. C. M. Pérombelon & J. McNicol.* Relationship between potato seed tuber contamination by *Erwinia carotovora* ssp. *atroseptica*, blackleg disease development and progeny tuber contamination

127 *H. W. Kang, S. W. Kwon & S. J. Go.* PCR-based specific and sensitive detection of *Pectobacterium carotovorum* ssp. *carotovorum* by primers generated from a URP-PCR fingerprinting-derived polymorphic band

134 *H. M. Wang, H. X. Wang, T. B. Ng & J. Y. Li.* Purification and characterization of an antibacterial compound produced by *Agrobacterium vitis* strain E26 with activity against *A. tumefaciens*

140 *S. T. Seo, N. Furuya, C. K. Lim, Y. Takanami & K. Tsuchiya.* Phenotypic and genetic characterization of *Erwinia carotovora* from mulberry (*Morus* spp.)

147 *N. A. Harrison, E. Boa & M. L. Carpio.* Characterization of phytoplasmas detected in Chinaberry trees with symptoms of leaf yellowing and decline in Bolivia

158 *S. J. Pethybridge & W. W. Turechek.* Analysis of the association among three viruses infecting hop in Australia

168 *A. A. Appiah, J. Flood, P. D. Bridge & S. A. Archer.* Inter- and intraspecific morphometric variation and characterization of *Phytophthora* isolates from cocoa

181 *D. E. L. Cooke, V. Young, P. R. J. Birch, R. Toth, F. Gourlay, J. P. Day, S. F. Carnegie & J. M. Duncan.* Phenotypic and genotypic diversity of *Phytophthora infestans* populations in Scotland (1995–97)

193 *H. E. Stewart, J. E. Bradshaw & B. Pande.* The effect of the presence of R-genes for resistance to late blight (*Phytophthora infestans*) of potato (*Solanum tuberosum*) on the underlying level of field resistance

199 *M. C. Rodríguez-Molina, I. Medina, L. M. Torres-Vila & J. Cuartero.* Vascular colonization patterns in susceptible and resistant tomato cultivars inoculated with *Fusarium oxysporum* f.sp. *lycopersici* races 0 and 1

204 *Y. Burger, N. Katzir, G. Tzuri, V. Portnoy, U. Saar, S. Shriber, R. Perl-Treves & R. Cohen.* Variation in the response of melon genotypes to *Fusarium oxysporum* f.sp. *melonis* race 1 determined by inoculation tests and molecular markers

212 *A. G. Levin, S. Lavee & L. Tsror (Lahkim).* Epidemiology of *Verticillium dahliae* on olive (cv. Picual) and its effect on yield under saline conditions

219 *P. M. Johansson, L. Johnsson & B. Gerhardson.* Suppression of wheat-seedling diseases caused by *Fusarium culmorum* and *Microdochium nivale* using bacterial seed treatment

228 *R. Rodríguez-Guerra, M-T. Ramírez-Rueda, O. Martínez de la Vega & J. Simpson.* Variation in genotype, pathotype and anastomosis groups of *Colletotrichum lindemuthianum* isolates from Mexico

236 *M. C. C. de Arruda, R. N. G. Miller, M. A. S. V. Ferreira & M. S. S. Felipe.* Comparison of *Crinipellis perniciosa* isolates from Brazil by ERIC repetitive element sequence-based PCR genomic fingerprinting

245 *Y. J. Huang, C. Toscano-Underwood, B. D. L. Fitt, X. J. Hu & A. M. Hall.* Effects of temperature on ascospore germination and penetration of oilseed rape (*Brassica napus*) leaves by A- or B-group *Leptosphaeria maculans* (phoma stem canker)

256 *J. K. Abood & D. M. Lösel.* Changes in carbohydrate composition of cucumber leaves during the d evelopment of powdery mildew infection

NUMBER 3 JUNE

Original Articles

267 *F. E. Constable, K. S. Gibb & R. H. Symons.* Seasonal distribution of phytoplasmas in Australian grapevines

277 *M. Scortichini, U. Marchesi, M. T. Dettori & M. P. Rossi.* Genetic diversity, presence of the *syrB* gene, host preference and virulence of *Pseudomonas syringae* pv. *syringae* strains from woody and herbaceous host plants

287 *A. M. Alippi, E. Dal Bo, L. B. Ronco, M. V. López, A. C. López & O. M. Aguilar.* *Pseudomonas* populations causing pith necrosis of tomato and pepper in Argentina are highly diverse

303 *V. Lebot, C. Herail, T. Gunua, J. Pardales, M. Prana, M. Thongjiem & N. Viet.* Isozyme and RAPD variation among *Phytophthora colocasiae* isolates from South-east Asia and the Pacific

314 *F. M. Abu-El Samen, G. A. Secor & N. C. Gudmestad.* Genetic variation among asexual progeny of *Phytophthora infestans* detected with RAPD and AFLP markers

326 *W. G. Flier, G. B. M. van den Bosch & L. J. Turkensteen.* Stability of partial resistance in potato cultivars exposed to aggressive strains of *Phytophthora infestans*

338 *C. S. Young, N. D. Paveley, T. B. Vaughan, J. M. Thomas & K. D. Lockley.* Predicting epidemics of yellow rust (*Puccinia striiformis*) on the upper canopy of wheat from disease observations on lower leaves

350 *P. H. Thrall, R. Godfree & J. J. Burdon.* Influence of spatial structure on pathogen colonization and extinction: a test using an experimental metapopulation

362 *E. Baraldi, M. Mari, E. Chierici, M. Pondrelli, P. Bertolini & G. C. Pratella.* Studies on thiabendazole resistance of *Penicillium expansum* of pears: pathogenic fitness and genetic characterization

371 *G. R. G. Clover, M. N. Pearson, D. R. Elliott, Z. Tang, T. E. Smales & B. J. R. Alexander.* Characterization of a strain of *Apple stem grooving virus* in *Actinidia chinensis* from China

379 *J. Stonor, P. Hart, M. Gunther, P. DeBarro & M. A. Rezaian.* Tomato leaf curl geminivirus in Australia: occurrence, detection, sequence diversity and host range

389 *E. Maciel-Zambolim, S. Kunieda-Alonso, K. Matsuoka, M. G. de Carvalho & F. M. Zerbini.* Purification and some properties of Papaya meleira virus, a novel virus infecting papayas in Brazil

395 *M. P. Pérez, J. A. Navas-Cortés, M. J. Pascual-Villalobos & P. Castillo.* Nematicidal activity of essential oils and organic amendments from Asteraceae against root-knot nematodes

New Disease Reports

402 *A. Gezahgne, J. Roux & M. J. Wingfield.* First report of pink disease on *Eucalyptus camaldulensis* in Ethiopia

403 *Y. Balci & E. Halmschlager.* First report of *Phytophthora quercina* from oak forests in Austria

404 *R. L. Gilbert.* First report of *Exserohilum pedicellatum* on *Zea mays* in Australia

405 *M. Gazel & N. Önelge.* First report of grapevine viroids in the east Mediterranean region of Turkey

406 *M. L. Putnam & L. J. du Toit.* First report of alternaria blight caused by *Alternaria panax* on ginseng (*Panax quinquefolius*) in Oregon and Washington, USA

407 *J. Aramburu & M. Martí.* The occurrence in north-east Spain of a variant of *Tomato spotted wilt virus* (TSWV) that breaks resistance in tomato(*Lycopersicon esculentum*) containing the *Sw-5* gene

408 *J. I. Dennis.* New disease of coriander in Australia associated with a *Microdochium* species

409 *S. Kurt, E. M. Soylu & S. Soylu.* First report of downy leaf spot of walnuts caused by *Microstroma juglandis* in Turkey

410 *R. Martínez, M. I. Aguilar, M. L. Guirado, A. Álvarez & J. Gómez.* First report of fusarium wilt of cucumber caused by *Fusarium oxysporum* in Spain

411 *R. Ram, A. Joshi, N. Verma, S. Kulshrestha, G. Raikhy, V. Hallan & A. A. Zaidi.* First report of *Dasheen mosaic virus* infecting four ornamental aroids in India

412 *K. M. Makkouk, A. A. Hamed, M. Hussein & S. G. Kumari.* First report of *Faba bean necrotic yellows virus* (FBNYV) infecting chickpea (*Cicer arietinum*) and faba bean (*Vicia faba*) crops in Sudan

413 *K. M. Makkouk, L. Rizkallah, S. G. Kumari, M. Zaki & R. Abul Enein.* First record of *Chickpea chlorotic dwarf virus* (CpCDV) affecting faba bean (*Vicia faba*) crops in Egypt

414 *C. R. Lane, P. A. Beales, K. J. D. Hughes, R. L. Griffin, D. Munro, C. M. Brasier & J. F. Webber.* First outbreak of *Phytophthora ramorum* in England, on *Viburnum tinus*

415 *S. Soylu, S. Kurt & E. M. Soylu.* First report of phloeospora leaf spot on mulberry caused by *Phloeospora maculans* (= *Cylindrosporium maculans*) in the East Mediterranean region of Turkey

416 *M. Siegwart, M. C. Bon, T. L. Widmer, N. Crespy & R. Sforza.* First report of *Fusarium arthrosporioides* on medusahead (*Taeniatherum caput-medusae*) and preliminary tests for host-specificity

417 *A. M. Vettraino & A. Vannini.* Scotch broom: a new host of *Phytophthora megasperma* in Italy

418 *R. Nicoletti, F. Raimo, C. Pasini & F. D'Aquila.* Occurrence of *Cercospora insulana* on statice (*Limonium sinuatum*) in Italy

419 *A. O. Al Adawi, M. L. Deadman, A. K. Al Rawahi, A. J. Khan & Y. M. Al Maqbali.* *Diplodia theobromae* associated with sudden decline of mango in the Sultanate of Oman

420 *B. Henricot & P. Beales.* First record of *Cylindrocladium pauciramosum* on myrtle (*Myrtus communis*) in Portugal

421 *C. Eken.* First report of *Ascochyta fabae* on sainfoin in Turkey

422 *A-L. Laine.* First report of *Phomopsis subordinaria* in a natural population of *Plantago lanceolata* in south-west Finland

423 *E. M. Soylu & S. Soylu.* First report of powdery mildew caused by *Erysiphe heraclei* on dill (*Anethum graveolens*) in Turkey

424 *M. K. Kwon, B. R. Kang, B. H. Cho & Y. C. Kim.* Occurrence of target leaf spot disease caused by *Corynespora cassicola* on cucumber in Korea

425 *O. Santamaría, J. A. Pajares & J. J. Diez.* First report of *Gremmeniella abietina* on *Pinus halepensis* in Spain

426 *F. M. Dugan, B. C. Hellier & S. L. Lupien.* First report of *Fusarium proliferatum* causing rot of garlic bulbs in North America

427 *N. Telechea, M. Rolfo, T. A. Coutinho & M. J. Wingfield.* *Puccinia psidii* on *Eucalyptus globulus* in Uruguay

NUMBER 4 **AUGUST**

Original Articles

429 *A. A. Borges, H. J. Cools & J. A. Lucas.* Menadione sodium bisulphite: a novel plant defence activator which enhances local and systemic resistance to infection by *Leptosphaeria maculans* in oilseed rape

437 *M. A. Campbell & R. W. Medd.* Leaf, floret and seed infection of wheat by *Pyrenophora semeniperda*

448 *M. A. Campbell, R. W. Medd & J. B. Brown.* Optimizing conditions for growth and sporulation of *Pyrenophora semeniperda*

455 *C. A. Pilotti, F. R. Sanderson & E. A. B. Aitken.* Genetic structure of a population of *Ganoderma boninense* on oil palm

464 *S. Surujdeo-Maharaj, P. Umaharan, D. R. Butler & T. N. Sreenivasan.* An optimized screening method for identifying levels of resistance to *Crinipellis perniciosa* in cocoa (*Theobroma cacao*)

476 *H. C. Evans, K. A. Holmes & A. P. Reid.* Phylogeny of the frosty pod rot pathogen of cocoa

486 *K. A. Holmes, H. C. Evans, S. Wayne & J. Smith.* *Irvingia*, a forest host of the cocoa black-pod pathogen, *Phytophthora megakarya*, in Cameroon

491 *A. M. Vettraino, A. Belisario, M. Maccaroni & A. Vannini.* Evaluation of root damage to English walnut caused by five *Phytophthora* species

496 *J. Laurila, M. C. Metzler, C. A. Ishimaru & V.-M. Rokka.* Infection of plant material derived from *Solanum acaule* with *Clavibacter michiganensis* ssp. *sepedonicus*: temperature as a determining factor in immunity of *S. acaule* to bacterial ring rot

505 *K. R. Blanche, L. T. T. Tran-Nguyen & K. S. Gibb.* Detection, identification and significance of phytoplasmas in grasses in northern Australia

513 *M. Garcia-Chapa, V. Medina, M. A. Viruel, A. Laviña & A. Batlle.* Seasonal detection of pear decline phytoplasma by nested-PCR in different pear cultivars

521 *S. Verdejo-Lucas, F. J. Sorribas, C. Ornat & M. Galeano.* Evaluating *Pochonia chlamydosporia* in a double-cropping system of lettuce and tomato in plastic houses infested with *Meloidogyne javanica*

529 *Book review*

NUMBER 5 **OCTOBER**

Letter to the Editor

533 *E. Kosman.* Nei's gene diversity and the index of average differences are identical measures of diversity within populations

Original Articles

536 *L. Y. Chen, T. V. Price & Z. Park-Ng.* Conidial dispersal by *Alternaria brassicicola* on Chinese cabbage (*Brassica pekinensis*) in the field and under simulated conditions

546 *B. Li, H. Zhao, B. Li & X.-M. Xu.* Effects of temperature, relative humidity and duration of wetness period on germination and infection by conidia of the pear scab pathogen (*Venturia nashicola*)

553 *A. R. McCracken, A. Berrie, D. J. Barbara, T. Locke, L. R. Cooke, K. Phelps, T. R. Swinburne, A. E. Brown, B. Ellerker & S. R. H. Langrell.* Relative significance of nursery infections and orchard inoculum in the development and spread of apple canker (*Nectria galligena*) in young orchards

567 *H. Lindqvist-Kreuze, S. Hellqvist, H. Koponen & J. P. T. Valkonen.* *Phoma–Didymella* complex on hybrid arctic bramble with wilting symptoms

579 *A. Solla & L. Gil.* Evaluating *Verticillium dahliae* for biological control of *Ophiostoma novo-ulmi* in *Ulmus minor*

586 *D. Andrivon, J.-M. Lucas & D. Ellissèche.* Development of natural late blight epidemics in pure and mixed plots of potato cultivars with different levels of partial resistance

595 *W. G. Flier, G. B. M. van den Bosch & L. J. Turkensteen.* Epidemiological importance of *Solanum sisymbriifolium*, *S. nigrum* and *S. dulcamara* as alternative hosts for *Phytophthora infestans*

604 *M. P. A. Coetzee, B. D. Wingfield, J. Roux, P. W. Crous, S. Denman & M. J. Wingfield.* Discovery of two northern hemisphere *Armillaria* species on Proteaceae in South Africa

613 *V. L. de Souza & A. C. Café-Filho.* Resistance to *Leveillula taurica* in the genus *Capsicum*

620 *B. Komolong, S. Chakraborty, M. Ryley & D. Yates.* Ovary colonization by *Claviceps africana* is related to ergot resistance in male-sterile sorghum lines

628 *J. L. Dumsday, K. F. Smith, J. W. Forster & E. S. Jones.* SSR-based genetic linkage analysis of resistance to crown rust (*Puccinia coronata* f. sp. *lolii*) in perennial ryegrass (*Lolium perenne*)

638 *N. D. Paveley, J. M. Thomas, T. B. Vaughan, N. D. Havis & D. R. Jones.* Predicting effective doses for the joint action of two fungicide applications

648 *Q. S. Novaes, J. Freitas-Astua, V. A. Yuki, E. W. Kitajima, L. E. A. Camargo & J. A. M. Rezende.* Partial characterization of a bipartite begomovirus infecting yellow passion flower in Brazil

655 *D. R. Crowle, S. J. Pethybridge, G. W. Leggett, L. J. Sherriff & C. R. Wilson.* Diversity of the coat protein-coding region among *Ilarvirus* isolates infecting hop in Australia

663 *E. Angelini, E. Negrisolo, D. Clair, M. Borgo & E. Boudon-Padieu.* Phylogenetic relationships among Flavescence dorée strains and related phytoplasmas determined by heteroduplex mobility assay and sequence of ribosomal and nonribosomal DNA

NUMBER 6 **DECEMBER**

Original Articles

673 *C. S. Kingsnorth, M. J. C. Asher, G. J. P. Keane, D. M. Chwarszczynska, M. C. Luterbacher & E. S. Mutasa-Göttgens.* Development of a recombinant antibody ELISA test for the detection of *Polymyxa betae* and its use in resistance screening

681 *P. Kong, C. X. Hong & P. A. Richardson.* Rapid detection of *Phytophthora cinnamomi* using PCR with primers derived from the *Lpv* putative storage protein genes

694 *Y. Balci & E. Halmschlager.* *Phytophthora* species in oak ecosystems in Turkey and their association with declining oak trees

703 *H. L. Hayden, J. Carlier and E. A. B. Aitken.* Genetic structure of *Mycosphaerella fijiensis* populations from Australia, Papua New Guinea and the Pacific Islands

713 *H. L. Hayden, J. Carlier & E. A. B. Aitken.* Population differentiation in the banana leaf spot pathogen *Mycosphaerella musicola*, examined at a global scale

720 *D. G. Schmale III & T. R. Gordon.* Variation in susceptibility to pitch canker disease, caused by *Fusarium circinatum*, in native stands of *Pinus muricata*

726 *C. Toscano-Underwood, Y. J. Huang, B. D. L. Fitt & A. M. Hall.* Effects of temperature on maturation of pseudothecia of *Leptosphaeria maculans* and *L. biglobosa* on oilseed rape stem debris

737 *O. Szentiványi & L. Kiss.* Overwintering of *Ampelomyces* mycoparasites on apple trees and other plants infected with powdery mildews

747 *Ö. Baysal, E. M. Soylu & S. Soylu.* Induction of defence-related enzymes and resistance by the plant activator acibenzolar-S-methyl in tomato seedlings against bacterial canker caused by *Clavibacter michiganensis* ssp. *michiganensis*

754 *L. J. Pilkington, K. S. Gibb, G. M. Gurr, M. J. Fletcher, A. Nikandrow, E. Elliott, R. van de. Ven & D. M. Y. Read.* Detection and identification of a phytoplasma from lucerne with Australian lucerne yellows disease

763 *L. Rubio, J. R. Herrero, J. Sarrió, P. Moreno & J. Guerri.* A new approach to evaluate relative resistance and tolerance of tomato cultivars to begomoviruses causing the tomato yellow leaf curl disease in Spain

770 *A. I. Nico, R. M. Jiménez-Díaz & P. Castillo.* Solarization of soil in piles for the control of *Meloidogyne incognita* in olive nurseries in southern Spain

New Disease Reports

779 *R. A. Mumford, B. Jarvis, J. Morris & A. Blockley.* First report of *Chrysanthemum stem necrosis virus* (CSNV) in the UK

780 *Y. Aysan & F. Sahin.* An outbreak of crown gall disease on rose caused by *Agrobacterium tumefaciens* in Turkey

781 *Y. Aysan & F. Sahin.* Occurrence of bacterial spot disease, caused by *Xanthomonas axonopodis* pv. *vesicatoria*, on pepper in the eastern Mediterranean region of Turkey

782 *Y. Aysan, S. Sahin, G. Ulke & F. Sahin.* Bacterial rot of lettuce caused by *Pseudomonas cichorii* in Turkey

783 *Y. Aysan & F. Sahin.* First report of bacterial blight of anthurium caused by *Xanthomonas axonopodis* pv. *dieffenbachiae* in Turkey

784 *S. Mansoor, I. Amin, S. Iram, M. Hussain, Y. Zafar, K. A. Malik & R. W. Briddon.* Breakdown of resistance in cotton to cotton leaf curl disease in Pakistan

785 *A. J. Inman, V. C. Townend, A. V. Barnes, C. R. Lane, K. J. D. Hughes, R. L. Griffin & S. J. Eales.* First report of ramorum dieback (*Phytophthora ramorum*) on *Pieris* in England

786 *R. C. Fernandes & R. W. Barreto. Corynespora cassiicola* causing leaf spots on *Coleus barbatus*

787 *A. L. Echemendía, P. L. Ramos, R. Peral, A. Fuentes, M. Pujol & G. González.* First report of *Dicliptera yellow mottle virus* (DiYMoV) infecting *Dicliptera vahliana* in Cuba

788 *A. R. Sherpa, V. Hallan, R. Ram, S. P. Vij, P. Pathak, I. D. Garg & A. A. Zaidi.* First report of *Cymbidium mosaic virus* (CymMV) in orchids from India

789 *M. Katoch, R. Ram & A. A. Zaidi.* First report of *Tobacco ringspot virus* occurring in gladiolus in India

790 *E. H. Abbas & A. S. Abdulla.* First report of neck bending disease on date palm in Qatar

791 *S. E. Bull, H. W. Karakacha, R. W. Briddon, S. Nzioki, M. N. Maruthi, J. Stanley & S. Winter.* Occurrence of *East African cassava mosaic Zanzibar virus* (EACMZV) in coastal Kenya

792 *A. Colariccio, A. L. R. Chaves, M. Eiras, C. M. Chagas, R. Lenzi & P. Roggero.* Presence of lettuce big-vein disease and associated viruses in a subtropical area of Brazil

793 *Y. Aysan, F. Sahin, M. Mirik, M. F. Donmez & H. Tekman.* First report of crown gall of apricot (*Prunus armeniaca*) caused by *Agrobacterium tumefaciens* in Turkey

794 *A. C. Maringoni, G. F. Theodoro, L. C. Ming, J. C. Cardoso & C. Kurozawa.* First report of *Pseudomonas cichorii* on turmeric (*Curcuma longa*) in Brazil

795 *A. Morton, N. J. Spence, N. Boonham & D. J. Barbara.* Carrot red leaf associated RNA in carrots in the United Kingdom

796 *J. A. Khan, S. S. Sohrab & Aminuddin.* Guar leaf curl disease from India is caused by *Tomato leaf curl virus*

797 *T. Nagata, E. W. Kitajima, D. M. T. Alves, J. E. Cardoso, A. K. Inoue-Nagata, M. R. V. de Oliveira & A. C. de Ávila.* Isolation of a novel carlavirus from melon in Brazil

798 *H. Benyahia, A. Jrifi, C. Smaili, M. Afellah, Y. Lamsetef & L. W. Timmer.* First report of *Colletotrichum gloeosporioides* causing withertip on twigs and tear stain on fruit of citrus in Morocco

799 *G. P. Accotto, M. Bragaloni, D. Luison, S. Davino & M. Davino.* First report of *Tomato yellow leaf curl virus* (TYLCV) in Italy

800 *Y. Aysan, M. Mirik, A. Ala, F. Sahin & O. Cinar.* First report of *Pseudomonas viridiflava* on melon in Turkey

801 *G. Raikhy, V. Hallan, S. Kulshrestha, M. L. Sharma, Raja Ram & A. A. Zaidi.* First report of *Carnation necrotic fleck virus* (CNFV) infecting carnations in India

802 *C. Eken, E. Demirci, A. E. Esitken & S. Ercisli.* First report of orchid (*Orchis laxiflora*) as a host of *Sclerotinia minor*, discovered in Turkey

803 *A. J. Valencia-Botín, J. S. Sandoval-Islas, E. Cárdenas-Soriano, T. J. Michailides & G. Rendón-Sánchez. Botryosphaeria dothidea* causing stem spots on *Hylocereus undatus* in Mexico

804 *S. Soylu, E. M. Soylu & S. Kurt.* First report of cercospora leaf spot on Swiss chard caused by *Cercospora beticola* in Turkey

805 *H. Kavak.* First record of leaf scald caused by *Rhynchosporium secalis* in a natural population of *Hordeum vulgare* ssp. *spontaneum* in Turkey

806 *A. Salomone, V. Masenga, G. Minuto, C. Parodi & P. Roggero.* First report of *Tomato spotted wilt virus* (*Tospovirus*, *Bunyaviridae*) infecting *Euphorbia eritrea* and *Asclepias curassavica* in Liguria, Italy

807 *J. Bakonyi, K. Varga, Z. Á. Nagy & A. Koltay.* Occurrence of *Phytophthora citricola* in an alder forest in Hungary

808 *M. H. Ellis, G. J. Rebetzke & P. Chu.* First report of *Wheat streak mosaic virus* in Australia

809 *M. Hussain, S. Mansoor, I. Amin, S. Iram, Y. Zafar, K. A. Malik & R. W. Briddon.* First report of cotton leaf curl disease affecting chili peppers

810 *K. Elena & D. Vlahoyiannis.* First report of *Botrytis cinerea* causing shoot blight of pistachio in Greece

811 *Author index*

819 *Keyword index*